

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 09-003793  
(43)Date of publication of application : 07.01.1997

(51)Int.CI. D21H 17/37  
C08F 2/10  
C08F 2/38  
C08F220/56  
C08F226/04

(21)Application number : 08-012688 (71)Applicant : SUMITOMO CHEM CO LTD  
(22)Date of filing : 29.01.1996 (72)Inventor : YAMAMOTO SATOSHI  
YOSHIDA YOSHIFUMI  
MAKINO SHIGETO

(30)Priority  
Priority number : 07 91185 Priority date : 17.04.1995 Priority country : JP

(54) ADDITIVE FOR PAPER MANUFACTURING AND PRODUCTION OF COPOLYMER USEFUL AS THE SAME

(57)Abstract: [Image]  
PROBLEM TO BE SOLVED: To realize high paper strengthening effect through suppressing formation disorder, by incorporating a pulp slurry with an additive for paper manufacturing consisting of a copolymer obtained by copolymerization between a diallylamine-based monomer, acrylamide-based monomer and crosslinkable vinyl monomer.  
SOLUTION: This additive for paper manufacturing is obtained by copolymerization between at least the following three components, namely: 1-70mol% of an allylamine-based monomer of formula I (R1 and R2 are each H or methyl; R3 and R4 are each H, a 1-8C alkyl or aralkyl; X is an anion of an acid), >=30mol% of an acrylamide-based monomer of formula II (R5 is H or methyl; R6 and R7 are each H or a 1-4C alkyl) and 0.05-5mol% of a crosslinkable vinyl monomer such as triallylamine, divinylbenzene or methylenebis(meth)acrylamide, in the presence of a chain transfer agent, or copolymerization between the above three components plus 0.005-5mol% of an unsaturated carboxylic acid-based monomer selected from <math>\alpha</math>-unsaturated monocarboxylic and dicarboxylic acids. This additive has a relatively high molecular weight with a weight-average molecular weight of 10000-10000000, however, has a relatively low viscosity of its aqueous solution.

LEGAL STATUS

[Date of request for examination]  
[Date of sending the examiner's decision of rejection]  
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]  
[Date of final disposal for application]  
[Patent number]  
[Date of registration]  
[Number of appeal against examiner's decision of rejection]  
[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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